

Claims

1. A divided driver device for a mechanical face seal for non-rotatable assembly on a rotary component and for the transmission of a torque to a seal ring (2) held in non-rotatable manner on the driver device, in which the driver device (5) is divided in at least a single radial plane for forming sections (14₁, 14₂, 16₁, 16₂) in the form of segments of a circle, said sections being adapted to be clamped together in the shape of a ring, characterized in that the driver device (5) is axially sub-divided into a divided retaining ring (14) for retaining the seal ring (2) and a divided mounting ring (16) for non-rotatable mounting to the rotary component, said rings (14,16) being coupled together for rotation in common, whereby the retaining ring (14) comprises sections (14₁, 14₂) in the form of segments of a circle adapted to be placed together in mutually sealed manner in the shape of a ring having an inner radial dimension that is greater than the nominal outer radial dimension of the rotary component and which comprise peripherally aligned end faces (15₁, 15₂) abutting each another.
2. The driver device according to claim 1, characterized in that said peripherally aligned end faces (15₁, 15₂) of the retaining ring (14) are in essentially planar metal-to-metal contact and comprise a surface finish for mutually sealing them.
3. The driver device according to claim 2, characterized in that said peripherally aligned end faces (15₁, 15₂) of the retaining ring (14) have a roughness $\leq 1.0 \mu\text{m}$, preferably $\leq 0.8 \mu\text{m}$, and most preferably $0.5 \mu\text{m}$.
4. The driver device according to claim 1, characterized in that the retaining ring (14) and the mounting ring (16) are coupled together with play in at least the circumferential direction.
5. The driver device according to claim 1, characterized in that the mounting ring (16) is in the form of a clamping ring for clamping engagement with the rotary component.

6. The driver device according to claim 5, characterized in that the mounting ring (16) comprises at least a pair of sections (16₁, 16₂) in the form of segments of a circle adapted to be built up to a ring shape having an inner radial dimension that is smaller than the inner radial dimension of the retaining ring (14).

7. The driver device according to claim 1, characterized in that the seal ring (2) is loosely seated on the retaining ring (14).

8. A divided mechanical face seal having a divided driver device according to claims 1 and a seal housing (3) divided in at least one radial plane into sections in the form of segments of a circle which are clamped together and mutually sealed, wherein a seal ring (1) is held non-rotatably on said housing for cooperating with the seal ring (2) of the driver device (5).

9. The mechanical face seal according to claim 8, characterized in that said sections of the seal housing (3) comprise peripherally aligned end faces (10) which are in essentially planar metal-to-metal contact and comprise a surface finish for mutually sealing.